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Cisco Patents On-Line (CPOL)   Cisco Systems

Idea Details (#41685)

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· Directory-enabled network elements

CPOL No.: 41685   Seq No.: 1414   Status: Pending   Submitted: · ·   · Modified:

Idea Details

Inventors:

Email Inventors

Fan Jiao (fjiao)   *Employee has left Cisco.*

Raymond Bell (rabell)   *Employee has left Cisco.*

Ramprasad Golla (rgolla)   **Phone:** 408 527-8261   **Manager:** hopprich   **Dept:** PNDI - JDP

Type: Regular   **Division:** Network Management   **Site:** SAN JOSE SITE 5   **Info:** Cisco Directory

Background: CNS (Cisco Network Services) started working on Directory-enabled
agents
under IOS for all cisco IOS devices (1600, 25xx, 4xxx, 26xx, 36xx, .
7xxx, ls1010, 12xxx, and c5xxx w/ router switch module) in ·
The project "CNS for IOS 12.0.4" is being released in IOS 12.0.4.
The follow-up project "CNS for IOS II" is under way for IOS 12.0.5
release. There will be "CNS for IOS III" targeted for IOS 12.0.6, and
"CNS for IOS IV" for IOS 12.1.1 release.
Eventually all work will be ported into IOS ENA sometime late of this year
or early next year.

Prior Art: - - -

Summary: Directory-enabled Network Element is a state-of-art technology to
to enable smart, user-friendly, and network service managed network
elements. By using the technology, well-defined network services offered
by the network elements can be easily associated with users. A set of
core Directory Services agents are built into router software (IOS) such
that a router is authenticated to Directory automatically when it is
powered up just like an ordinary workstation. Those agents provide
network services on behave of the network services directly to authorized
users.

Restatement: - - -

Advantages: 1. ISPs love this technolgy. It will enable ISPs to offer comprehensive,
flexible, and competitive network services to their customers.

2. It is an excellent solution to solve the scalability problems of configuring/provisioning network services. No manual provisioning would be required any more.

3. It will allow semeless integration with CNS/AD and MS/AD.

4. It will allow use of CNS DEN extensions which is DEN compliant.

Cisco Use: A. CNS Client for IOS is being released in IOS 12.0.4. It is part of the following images/platforms:

1. Enterprise Images
c5200-j-l 5200
c5300-j-mz 5300
c7200-js-mz 7200
rsp-jsv-mz 7505/07/13/RSP7000
c5rsm-jsv-mz Cisco 5000 (router module addon card for cat 5000)

2. Enterprise 40 Images:
c7200-js40-mz 7200
rsp-jsv40-mz 7505/07/13/RSP7000

3. Enterprise IPSec 56 Images:
c7200-js56i-mz 7200
rsp-jsv56i-mz 7505/07/13/RSP7000
c5rsm-jsv56i-mz 5000

4. Enterprise Plus
c2500-js-l 2501-2525/3011 (Access Pro)
c2600-js-mz 3620
c3540-js-mz 3640
c4000-js-mz 4000/4000-m
c4500-js-mz 4500/4700/4500-m
c5200-js-l 5200
c5300-js-mz 5300

5. Enterprise Plus 40
c2500-js40-l 2501-2525/2501CF-2502CF/ 2520CF-2523CF
                                        /2520LF-2523LF
c2600-js40-mz 2610-2612
c4000-js40-mz 4000/4000-m
c4500-js40-mz 4500/4700/4500-m
c5300-js40-mz 5300
c3620-js40-mz 3620
c3640-js40-mz 3640

6. Enterprise Plus 56
c2500-js56-l Cisco 2501-2525 /2501CF-2502CF/ 2520CF-2523CF
                                        /2520LF-2523LF
c2600-js56-mz 2610-2612

7. Enterprise Plus IPSec 56
c2500-js56i-l Cisco 2501-2525 /2501CF-2502CF/ 2520CF-2523CF
                                        /2520LF-2523LF

```
c2600-js56i-mz 2610-2612
c3620-js56i-mz 3620
c3640-js56i-mz 3640
c4000-js56i-mz 4000/4000-m
c4500-js56i-mz 4500/4700/4500-m
c5300-js56i-mz 5300


8. Enterprise/APPN
c7200-ajs-mz 7200
rsp-ajsv-mz 7505/7505/7513/RSP7000


9. Enterprise/APPN 40
c7200-ajs40-mz 7200
rsp-ajsv40-mz 7505/07/13/RSP7000
c5rsm-ajsv40-mz 5000


10. Enterprise/APPN IPSec 56
c7200-ajs56i-mz 7200
rsp-ajsv56i-mz 7200 7505/07/13/RSP7000
c5rsm-ajsv56i-mz 5000


11. Enterprise/APPN Plus
c2600-ajs-mz 2610-2612
3620-ajs-mz 3620
c3640-ajs-mz 3640
c4000-ajs-mz 4000-m
c4500-ajs-mz 4500/47000/4500-m


12. Enterpsie/APPN Plus 40
c2600-ajs40-mz 2610-2612
c3620-ajs40-mz 3620
c3640-ajs40-mz 3640
c4000-ajs40-mz 4000-m
c4500-ajs40-mz 4500/4700/4500-m


13. Enterpsie/APPN Plus 56
c2600-ajs56-mz 2610-2612


14. Enterprise/APPN Plus IPSec 56
c3620-ajs56i-mz 3620
c2500-ajs56i-l Cisco 2501-2525 /2501CF-2502CF/ 2520CF-2523CF
                                              /2520LF-2523LF
c2600-ajs56i-mz 2610-2612
c3640-ajs56i-mz 3640
c400-ajs56i-mz 4000-m
c4500-ajs56i-mz 4500/4700/4500-m


15. Enterprise/APPPN/DBCONN
c4500-aejs-mz Cisco 4500 /4700 /4500-M /4700-M
c7200-aejs-mz 7200
rsp-aejsv-mz 7505 /7507 /7513


16. Enterprise/APPPN/DBCONN 40
c4500-aejs40-mz  4500 /4700 /4500-M /4700-M
c7200-aejs40-mz 7200
rsp-aejsv40-mz Cisco 7505 /7507 /7513 /RSP7000


17.Enterprise/APPN/DBCONN IPSec 56
c4500-aejs56i-mz 4500 /4700 /4500-M /4700-M
```

```
c7200-aejs56i-mz 7200
rsp-aejsv56i-mz 7505 /7507 /7513

18.Enterprise/FW Plus 56
c2500-jos56-l 2501-2525 /2501CF-2502CF/ 2520CF-2523CF
                                              /2520LF-2523LF

19.Enterprise/FW Plus IPSec 56
c2500-jos56i-l 2501-2525 /2501CF-2502CF /2520CF-2523CF
                                              /2520LF-2523LF

20.Enterprise/VIP 40
 c5rsm-jsv40-mz  5000


B. CNS for IOS II is being developed for IOS 12.0.5 release

C. CNS for IOS III is in part of IOS release road map
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Public Use: not yet.

Detecting Use: Lucent started working on its Directory-enabled work using Novell's NDS for its switch products since late last year.

One should be able to detect its infringement by closely watching Lucent product annoucements.

Standards: ---

Technologies:

- IBM / SNA and Token Ring > IBM Networking > APPN
- IBM / SNA and Token Ring > IBM Networking > APPN+
- Network Management

Networking Solutions:

- Service Provider > Networking Solutions for Service Providers > Network Management Solutions for Service Providers
- Service Provider > Networking Solutions for Service Providers > Network Management Solutions for Service Providers > Cisco Internet OSS Service Management Applications

Categorization Notes:

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Categories Summary
[NM/S&A] [Rou] [Sw]
```


Supporting Documents:

- ---

Notes: Here are useful ENG docs:

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ENG-23055: IOS CNS/AD Client Program Plan (12.0.4)
ENG-25670: IOS CNS/AD Client System Functional Specification
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ENG-29746: CNS IOS 12.0.5T Program Plan
ENG-28376: CNS IOS Event Service Client System Functional Specification

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View Idea #

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